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SPACE OPERATIONS CONTROL CENTER

SATELLITE SITUATION REPORT

VOL. 3, NO. 5

FEBRUARY 27, 1963

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NASA

GODDARD SPACE FLIGHT CENTER

GREENBELT, MD.

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SPACE OPERATIONS CONTROL CENTER
GODDARD SPACE FLIGHT CENTER
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

VOLUME 3 NO. 5

FEBRUARY 27, 1963

SATELLITE SITUATION REPORT

THE FOLLOWING REPORT REFLECTS DATA COMPUTED AND COMPILED BY THE
GODDARD SPACE FLIGHT CENTER, NORAD, AND SMITHSONIAN ASTROPHYSICAL
OBSERVATORY AS OF 1430Z ON FEBRUARY 27, 1963.

OBJECTS IN ORBIT

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLINATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1960 LAUNCHES								
NU 1	COURIER 1B	US	4 OCT	106.8	28.35	1225	953	
NU 2	ROCKET BODY	US	4 OCT	106.4	28.28	1222	912	
XI 1	EXPLORER 8	US	3 NOV	112.3	49.94	2265	409	
XI 2	ROCKET BODY	US	3 NOV	112.0	49.94	2213	431	
XI 3	NONE	US	3 NOV	110.0	49.36	2059	399	
XI 4	NONE	US	3 NOV	110.9	50.44	2132	413	
PI 1	TIROS 2	US	23 NOV	98.2	48.49	739	610	
PI 2	ROCKET BODY	US	23 NOV	98.0	48.48	738	601	
PI 3	NONE	US	23 NOV	98.1	48.52	728	615	
PI 4	NONE	US	23 NOV	98.2	48.49	722	634	
1961 LAUNCHES								
ALPHA 1	SAMOS 2	US	31 JAN	94.8	97.42	542	472	
ALPHA 2	METAL OBJECT	US	31 JAN	94.8	97.43	537	472	
GAMMA 1*	VENUS PROBE	USSR	12 FEB	300D	0.58	1.0190AU	0.7183AU	
DELTA 1	EXPLORER 9	US	16 FEB	117.2	38.88	2513	612	
DELTA 2	ROCKET BODY	US	16 FEB	118.4	38.83	2598	635	
DELTA 3	NONE	US	16 FEB	INSUFFICIENT OBSERVATIONS				
KAPPA 1	EXPLORER 10	US	25 MAR	POSITION UNCERTAIN				
NU 1	EXPLORER 11	US	27 APR	107.8	28.82	1775	489	
OMICRON 1	TRANSIT 4A	US	29 JUN	103.8	66.81	996	882	
OMICRON 2	INJUN-SR-3	US	29 JUN	103.8	66.82	997	882	
OMICRON 3-164**	METAL OBJECTS	US	29 JUN	INSUFFICIENT OBSERVATIONS				
RHO 1	TIROS 3	US	12 JUL	100.3	47.88	808	748	
RHO 2	ROCKET BODY	US	12 JUL	100.3	47.88	798	753	
RHO 3	METAL OBJECT	US	12 JUL	98.8	47.92	792	617	
RHO 4	METAL OBJECT	US	12 JUL	101.9	47.86	936	772	
SIGMA 1	MIDAS 3	US	12 JUL	161.5	91.21	3590	3299	
SIGMA 3	METAL OBJECT	US	12 JUL	161.2	91.16	3550	3312	
SIGMA 4	METAL OBJECT	US	12 JUL	161.9	91.17	3569	3353	
UPSILON 1	EXPLORER 12	US	16 AUG	INSUFFICIENT OBSERVATIONS				
A DELTA 1	MIDAS 4	US	21 OCT	166.0	95.87	3762	3489	

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLINATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
1961 LAUNCHES								
A DELTA 3	METAL OBJECT	US	21 OCT	165.6	95.85	3717	3502	
A DELTA 4	METAL OBJECT	US	21 OCT	166.4	95.87	3770	3515	
A ETA 1	TRANSIT 4B	US	15 NOV	105.6	32.43	1099	963	
A ETA .2	TRAAC	US	15 NOV	105.6	32.43	1130	934	
A ETA 3	ROCKET BODY	US	15 NOV	105.5	32.43	1147	903	
1962 LAUNCHES								
ALPHA 1*	RANGER 3	US	26 JAN	406.4D	3988	1.163AU	0.9839AU	
ALPHA 2	ROCKET BODY	US	26 JAN	INSUFFICIENT OBSERVATIONS				
BETA 1	TIROS 4	US	8 FEB	100.3	48.29	839	714	
BETA 2	ROCKET BODY	US	8 FEB	101.3	48.14	938	708	
BETA 3	METAL OBJECT	US	8 FEB	99.4	48.41	767	700	
BETA 4	METAL OBJECT	US	8 FEB	100.2	48.29	832	715	
ZETA 1	ORB. SOL. OBS. 1	US	7 MAR	95.9	32.83	588	552	
ZETA 2	ROCKET BODY	US	7 MAR	95.9	32.84	598	546	
ETA 1	COSMOS 2	USSR	7 MAR	91.0	90.88	416	229	
IOTA 1		US	6 APR	95.6	48.94	905	200	
KAPPA 1		US	9 APR	153.0	86.67	3414	2780	
KAPPA 3		US	9 APR	152.7	86.65	3374	2790	
KAPPA 4		US	9 APR	153.4	86.65	3423	2800	
MU 2	ROCKET BODY	US	23 APR	INSUFFICIENT OBSERVATIONS				
OMICRON 1	ARTEL	US/UK	26 APR	100.7	53.86	1195	392	
OMICRON 2	ROCKET BODY	US/UK	26 APR	100.7	53.85	1182	403	
SIGMA 1		US	15 MAY	92.7	82.34	510	294	
UPSILON 1	COSMOS 5	USSR	28 MAY	93.9	48.97	754	180	
OMEGA 1		US	18 JUN	91.7	82.13	358	347	
A ALPHA 1	TIROS 5	US	19 JUN	100.5	58.08	981	581	
A ALPHA 2	ROCKET BODY	US	19 JUN	100.4	58.08	978	577	
A ALPHA 3	METAL OBJECT	US	19 JUN	101.7	58.21	1092	591	
A ALPHA 4	METAL OBJECT	US	19 JUN	99.1	57.99	868	565	
A EPSILON 1	TELSTAR 1	US	10 JUL	157.7	44.78	5636	954	
A EPSILON 2	ROCKET BODY	US	10 JUL	157.5	44.80	5643	9933	

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLINATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
1962 LAUNCHES								
A XI 1	COSMOS 8	USSR	18 AUG	91.5	48.95	458	250	
A OMICRON 1		US	23 AUG	99.6	98.64	862	610	
A OMICRON 2		US	23 AUG	98.3	98.64	761	591	
A OMICRON 3		US	23 AUG	100.9	98.62	950	644	
A OMICRON 4		US	23 AUG	99.6	98.63	858	614	
A RHO 1*	MARINER 2	US	27 AUG	348D	1.66	1.229AU	0.7046AU	
A RHO 2	ROCKET BODY	US	27 AUG					
A UPSILON 1	TIROS 6	US	1 SEP	93.8	82.84	621	295	
A PSI 1	ROCKET BODY	US	18 SEP	98.7	58.28	710	687	136.235;136.922
A PSI 2	METAL OBJECT	US	18 SEP	98.7	58.28	714	677	
A PSI 3	METAL OBJECT	US	18 SEP	99.4	58.44	762	697	
A PSI 4	METAL OBJECT	US	18 SEP	98.0	58.19	701	630	
B ALPHA 1	ALOUETTE	CANADA	29 SEP	105.5	80.45	1040	993	136.979
B ALPHA 2	ROCKET BODY	US	29 SEP	105.5	80.46	1034	994	
B ALPHA 3	METAL OBJECT	US	29 SEP	105.4	80.50	1030	993	
B ALPHA 4	METAL OBJECT	US	29 SEP	105.5	80.45	1034	999	
B GAMMA 1	EXPLORER 14	US	2 OCT	2184.7	37.12	97898	891	136.44
B GAMMA 2	ROCKET BODY	US	2 OCT					
B ETA 1	RANGER 5	US	18 OCT					
B ETA 2	ROCKET BODY	US	18 OCT					
B KAPPA 1	EXPLORER 15	US	26 OCT	145.5	71.37	5368	197	
B LAMBDA 1	ROCKET BODY	US	27 OCT	314.8	17.98	7610	317	
B LAMBDA 2	ANNA 1B	US	27 OCT					
B MU 1	ROCKET BODY	US	31 OCT	107.8	50.15	1180	1079	
B MU 2		US	31 OCT	107.5	50.13	1146	1086	
B TAU 1		US	13 DEC	115.5	70.36	2724	231	
B TAU 2		US	13 DEC	115.9	70.35	2756	235	
B TAU 3		US	13 DEC	110.0	70.29	2226	223	
B TAU 4		US	13 DEC	115.1	70.33	2687	230	
B TAU 5		US	13 DEC	115.5	70.35	2726	228	
B TAU 6		US	13 DEC	115.8	70.37	2748	236	
B UPSILON 1	RELAY 1	US	13 DEC	185.0	47.51	7438	1322	136.140;136.620
B UPSILON 2	ROCKET BODY	US	13 DEC	184.8	47.45	7398	1345	

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLINATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
1962 LAUNCHES								
B CHI 1	EXPLORER 16	US	16 DEC	104.3	51.99	1174	756	136.858
B PSI 1	TRANSIT 5A	US	19 DEC	99.2	90.63	735	696	150;400
B PSI 2		US	19 DEC	97.9	90.74	735	579	
B PSI 3		US	19 DEC	99.2	90.63	729	701	
B PSI 4		US	19 DEC	100.3	90.47	848	691	
NASA CODE								
	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLINATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>INTERNATIONAL DESIGNATION</u>
1963 N 1A	SYNCOM	US	14 FEB	INSUFFICIENT OBSERVATIONS		1963 4A		
1963 N 1B	ROCKET BODY	US	14 FEB	INSUFFICIENT OBSERVATIONS		1963 4B		

* APHELION, PERIHELION IN ASTRONOMICAL UNITS, INCLINATION TO ECLIPTIC.

** ONE HUNDRED AND SIXTY TWO METAL OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1961 OMICRON 1 AND 1961 OMICRON 2. OBJECTS OF THIS SERIES THAT HAVE DEAYED CAN BE FOUND IN THE DECAYED OBJECTS LISTS.

DECAYED OBJECTS

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>DECAY</u>
1957 LAUNCHES				
ALPHA 1	ROCKET BODY	USSR	4 OCT	1 DEC 57
ALPHA 2	SPUTNIK 1	USSR	4 OCT	EARLY JAN 58
BETA 1	SPUTNIK 2	USSR	3 NOV	14 APR 58
1958 LAUNCHES				
GAMMA 1	EXPLORER 3	US	26 MAR	28 JUN 58
DELTA 1	ROCKET BODY	USSR	15 MAY	3 DEC 58
DELTA 2	SPUTNIK 3	USSR	15 MAY	6 APR 60
EPSILON 1	EXPLORER 4	US	26 JUL	23 OCT 59
ZETA 1	SCORE	US	18 DEC	21 JAN 59
ETA 1	PIONEER 1	US	11 OCT	12 OCT 58
THETA 1	PIONEER 3	US	6 DEC	7 DEC 58
1959 LAUNCHES				
BETA 1	DISCOVERER 1	US	28 FEB	EARLY MAR 59
GAMMA 1	DISCOVERER 2	US	13 APR	26 APR 59
DELTA 1	EXPLORER 6	US	7 AUG	PRESUMED PRIOR JUL 61
DELTA 2	ROCKET BODY	US	7 AUG	PRESUMED PRIOR JUL 61
EPSILON 1	DISCOVERER 5	US	13 AUG	28 SEP 59
EPSILON 2	CAPSULE	US	13 AUG	11 FEB 61
ZETA 1	DISCOVERER 6	US	19 AUG	20 OCT 59
THETA 1	LUNIK 3	USSR	4 OCT	MAR 60
KAPPA 1	DISCOVERER 7	US	7 NOV	26 NOV 59
LAMBDA 1	DISCOVERER 8	US	20 NOV	8 MAR 60
XI 1	LUNIK 2	USSR	12 SEP	13 SEP 59*****
1960 LAUNCHES				
GAMMA 1	ROCKET BODY	US	13 APR	18 AUG 60
GAMMA 3	METAL OBJECT	US	13 APR	JUL 60

DECAYED OBJECTS (CONT'D)

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>DECAY</u>
1960 LAUNCHES CONT'D				
DELTA 1	DISCOVERER 11	US	15 APR	60
EPSILON 1	SPUTNIK 4	USSR	15 MAY	5 SEP 62
EPSILON 2	ROCKET BODY	USSR	15 MAY	17 JUL 60
EPSILON 4	NONE	USSR	15 MAY	PRIOR JUL 61
EPSILON 5	NONE	USSR	15 MAY	SEP-OCT 60
EPSILON 6	NONE	USSR	15 MAY	24 SEP 60
EPSILON 7	NONE	USSR	15 MAY	24 SEP 60
EPSILON 8	NONE	USSR	15 MAY	SEP-OCT 60
EPSILON 9	NONE	USSR	15 MAY	SEP-OCT 60
ZETA 2	METAL OBJECT	US	24 MAY	5 DEC 60
THETA 1	DISCOVERER 13	US	10 AUG	14 NOV 60
THETA 1	CAPSULE	US	10 AUG	11 AUG 60**
KAPPA 1	DISCOVERER 14	US	18 AUG	16 SEP 60
KAPPA 1	CAPSULE	US	18 AUG	19 AUG 60**
LAMBDA 1	SPUTNIK 5	USSR	19 AUG	20 AUG 60*
LAMBDA 2	ROCKET BODY	USSR	19 AUG	23 SEP 60
MU 1	DISCOVERER 15	US	13 SEP	18 OCT 60
MU 1	CAPSULE	US	13 SEP	15 SEP 60**
OMICRON 1	DISCOVERER 17	US	12 NOV	29 DEC 60
OMICRON 1	CAPSULE	US	12 NOV	14 NOV 60
RHO 1	SPUTNIK 6	USSR	1 DEC	2 DEC 60
RHO 2	ROCKET BODY	USSR	1 DEC	2 DEC 60
SIGMA 1	CAPSULE	US	7 DEC	10 DEC 60**
SIGMA 1	DISCOVERER 18	US	7 DEC	2 APR 61
TAU 1	DISCOVERER 19	US	20 DEC	23 JAN 61
1961 LAUNCHES				
BETA 1	SPUTNIK 7	USSR	4 FEB	26 FEB 61
BETA 2	ROCKET BODY	USSR	4 FEB	12-13 FEB 61
BETA 3	NONE	USSR	4 FEB	17 MAR 61
GAMMA 2	ROCKET BODY	USSR	12 FEB	18 FEB 61

DECAYED OBJECTS (CONT'D)

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>DECAY</u>
1961 LAUNCHES CONT'D				
GAMMA 3	SPUTNIK 8	USSR	12 FEB	25 FEB 61
GAMMA 4	NONE	USSR	12 FEB	13-18 FEB 61
DELTA 4	NONE	US	16 FEB	PRIOR JUL 61
EPSILON 1	DISCOVERER 20	US	17 FEB	28 JUL 62
EPSILON 2	NONE	US	17 FEB	30 MAR-2 APR 61
EPSILON 3	NONE	US	17 FEB	20 APR 61
EPSILON 4	NONE	US	17 FEB	31 OCT 61
ZETA 1	DISCOVERER 21	US	18 FEB	20 APR 62
ETA 1	TRANSIT 3B & LOFTI	US	22 FEB	30 MAR 61
THETA 2	SPUTNIK 9	USSR	9 MAR	9 MAR 61*
THETA 3	NONE	USSR	9 MAR	10 MAR 61
THETA 4	NONE	USSR	9 MAR	10 MAR 61
IOTA 1	SPUTNIK 10	USSR	25 MAR	25 MAR 61
IOTA 2	ROCKET BODY	USSR	25 MAR	26 MAR 61
IOTA 3	NONE	USSR	25 MAR	26 MAR 61
LAMBDA 1	DISCOVERER 23	US	8 APR	16 APR 62
LAMBDA 2	CAPSULE	US	8 APR	23 MAY 62
LAMBDA 3	NONE	US	8 APR	10 SEP 61
MU 1	VOSTOK 1	USSR	12 APR	12 APR 61****
MU 2	ROCKET BODY	USSR	12 APR	16 APR 61
XI 1	CAPSULE	US	16 JUN	18 JUN 61
XI 2	DISCOVERER 25	US	16 JUN	12 JUL 61
OMICRON 25	METAL OBJECT	US	29 JUN	19 JUN 61
OMICRON 28	METAL OBJECT	US	29 JUN	30 SEP 62
OMICRON 46	METAL OBJECT	US	29 JUN	16 JUN 62
PI 1	DISCOVERER 26	US	7 JUL	29 JAN 62
PI 1	CAPSULE	US	8 JUL	5 DEC 61
SIGMA 2	METAL OBJECT	US	9 JUL	9 JUL 61**
TAU 1	VOSTOK 2	USSR	12 JUL	24 JUL 61****
TAU 2	ROCKET BODY	USSR	6 AUG	7 AUG 61****
			6 AUG	9 AUG 61

DECAYED OBJECTS (CONT'D)

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>DECAY</u>
1961 LAUNCHES CONT'D				
PHI 1	RANGER 1	US	23 AUG 61	30 AUG 61
PHI 2	ROCKET BODY	US	23 AUG	3 SEP 61
CHI 1	EXPLORER 13	US	25 AUG	28 AUG 61
PSI 1	DISCOVERER 29	US	30 AUG	10 SEP 61
PSI 1	CAPSULE	US	30 AUG	4 SEP 61
OMEGA 1	DISCOVERER 30	US	12 SEP	11 DEC 61
OMEGA 1	CAPSULE	US	12 SEP	15 SEP 61**
OMEGA 2	METAL OBJECT	US	12 SEP	18 SEP 61
OMEGA 3	METAL OBJECT	US	12 SEP	23 SEP 61
A ALPHA 1	MA-4	US	13 SEP	13 SEP 61**
A ALPHA 2	ROCKET BODY	US	13 SEP	13 SEP 61
A BETA 1	DISCOVERER 31	US	17 SEP	26 OCT 61
A GAMMA 1	DISCOVERER 32	US	13 OCT	13 NOV 61
A GAMMA 1	CAPSULE	US	13 OCT	14 OCT 61**
A GAMMA 2	METAL OBJECT	US	13 OCT	25 OCT 61**
A GAMMA 3	METAL OBJECT	US	13 OCT	16 OCT 61
A DELTA 2		US	21 OCT	5 DEC 61
A EPSILON 1	DISCOVERER 34	US	5 NOV	7 DEC 62
A EPSILON 2	METAL OBJECT	US	5 NOV	30 NOV 61
A EPSILON 3	METAL OBJECT	US	5 NOV	9 DEC 61
A EPSILON 4	METAL OBJECT	US	5 NOV	10 DEC 61
A EPSILON 5	METAL OBJECT	US	5 NOV	12 DEC 61
A ZETA 1	DISCOVERER 35	US	15 NOV	3 DEC 61
A ZETA 1	CAPSULE	US	15 NOV	16 NOV 61**
A ZETA 2	METAL OBJECT	US	15 NOV	23 NOV 61
A THETA 1	RANGER 2	US	18 NOV	20 NOV 61
A IOTA 1	MA-5	US	29 NOV	29 NOV 61**
A IOTA 2	ROCKET BODY	US	29 NOV	30 NOV 61
A KAPPA 1	DISCOVERER 36	US	12 DEC	8 MAR 62
A KAPPA 1	CAPSULE	US	12 DEC	16 DEC 61**
A KAPPA 2	OSCAR 1	US	12 DEC	31 JAN 62
A KAPPA 3	METAL OBJECT	US	12 DEC	19 DEC 61

DECAYED OBJECTS (CONT'D)

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>DECAY</u>
1961 LAUNCHES CONT'D				
A LAMBDA 1		US	22 DEC	14 AUG 62
A LAMBDA 2		US	22 DEC	31 DEC 61
A LAMBDA 3		US	22 DEC	9 JAN 62
1962 LAUNCHES				
GAMMA 1	FRIENDSHIP 7	US	20 FEB	20 FEB 62*****
GAMMA 2	ROCKET BODY	US	20 FEB	21 FEB 62
DELTA 1		US	21 FEB	4 MAR 62
EPSILON 1	DISCOVERER 38	US	27 FEB	21 MAR 62
EPSILON 1	CAPSULE	US	27 FEB	3 MAR 62**
EPSILON 2	ROCKET BODY	US	27 FEB	3 MAR 62
EPSILON 2	METAL OBJECT	US	27 FEB	3 MAR 62
EPSILON 3	METAL OBJECT	US	27 FEB	7 MAR 62
EPSILON 4	METAL OBJECT	US	7 MAR	31 MAR 62
ETA 2		US	7 MAR	3 NOV 62
ETA 3	COSMOS 1	USSR	16 MAR	25 MAY 62
THETA 1	ROCKET BODY	USSR	16 MAR	18 JUN 62
THETA 2	ROCKET BODY	USSR	6 APR	6 OCT 62
IOTA 2		US	9 APR	4 MAY 62
KAPPA 2		US	18 APR	28 MAY 62
LAMBDA 1		US	18 APR	20 APR 62
LAMBDA 2		US	18 APR	21 APR 62
LAMBDA 3		US	23 APR	21 APR 62
LAMBDA 4		US	24 APR	26 APR 62*****
MU 1	RANGER 4	USSR	24 APR	17 OCT 62
NU 1	COSMOS 3	USSR	24 APR	5 AUG 62
NU 2	ROCKET BODY	USSR	26 APR	29 APR 62
XI 1	COSMOS 4	USSR	26 APR	17 JUN 62
XI 2	ROCKET BODY	USSR	26 APR	3 MAY 62
XI 3	METAL OBJECT	USSR	26 APR	28 APR 62
PI 1		US	29 APR	26 MAY 62
RHO 1		US	29 APR	1 MAY 62
RHO 2		US		

DECAYED OBJECTS (CONT'D)

OBJECT

DECAY

LAUNCH

SOURCE

1962 LAUNCHES CONT'D

SIGMA 2	US	15 MAY	3 JUL 62
SIGMA 3	US	15 MAY	13 JUL 62
TAU 1	AURORA 7	24 MAY	24 MAY 62****
TAU 2	ROCKET BODY	24 MAY	25 MAY 62
UPSILON 2	ROCKET BODY	28 MAY	15 DEC 62
PHI 1	US	30 MAY	11 JUN 62
PHI 2	US	30 MAY	2 JUN 62
CHI 1	US	2 JUN	28 JUN 62
CHI 2	US	2 JUN	21 JUN 62
CHI 3	US	2 JUN	6 JUN 62
PSI 1	US	17 JUN	18 JUN 62
OMEGA 2	US	18 JUN	12 JUL 62
OMEGA 3	US	18 JUN	14 JUL 62
A BETA 1	US	23 JUN	7 JUL 62
A GAMMA 1	US	28 JUN	14 SEP 62
A DELTA 1	COSMOS 6	30 JUN	8 AUG 62
A DELTA 2	ROCKET BODY	30 JUN	8 SEP 62
A ZETA 1	US	18 JUL	25 JUL 62
A ZETA 2	US	18 JUL	27 JUL 62
A ETA 1	US	21 JUL	14 AUG 62
A THETA 1	US	28 JUL	24 AUG 62
A IOTA 1	COSMOS 7	28 JUL	1 AUG 62
A IOTA 2	ROCKET BODY	28 JUL	21 AUG 62
A IOTA 3	METAL OBJECT	28 JUL	31 JUL 62
A IOTA 4	METAL OBJECT	28 JUL	30 JUL 62
A KAPPA 1	US	2 AUG	26 AUG 62
A KAPPA 2	US	2 AUG	8 AUG 62
A LAMBDA 1	US	5 AUG	6 AUG 62
A MU 1	USSR	11 AUG	15 AUG 62****
A MU 2	USSR	11 AUG	14 AUG 62
A NU 1	USSR	12 AUG	15 AUG 62****
A NU 2	USSR	12 AUG	14 AUG 62
A XI 2	USSR	18 AUG	19 DEC 62
A PI 1	USSR	25 AUG	28 AUG 62

DECAYED OBJECTS (CONT'D)

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>DECAY</u>
1962 LAUNCHES CONT'D				
A PI 2		USSR	25 AUG	2 SEP 62
A PI 3		USSR	25 AUG	31 AUG 62
A PI 4		USSR	25 AUG	5 SEP 62
A PI 5		USSR	25 AUG	30 AUG 62
A PI 6		USSR	25 AUG	6 SEP 62
A PI 7		USSR	25 AUG	8 SEP 62
A PI 8		USSR	25 AUG	5 SEP 62
A SIGMA 1		US	29 AUG	10 SEP 62
A CHI 1		US	17 SEP	16 NOV 62
B DELTA 1		US	29 SEP	14 OCT 62
B DELTA 1	SIGMA 7	US	3 OCT	3 OCT 62*****
B DELTA 2	ROCKET BODY	US	3 OCT	4 OCT 62
B EPSILON 1		US	9 OCT	16 NOV 62
B OMICRON 1		US	5 NOV	3 DEC 62
B PI 1		US	11 NOV	12 NOV 62
B RHO 1		US	24 NOV	13 DEC 62
B SIGMA 1		US	4 DEC	8 DEC 62
B PHI 1		US	14 DEC	8 JAN 63

*USSR ANNOUNCED SUCCESSFUL RE-ENTRY AND RECOVERY

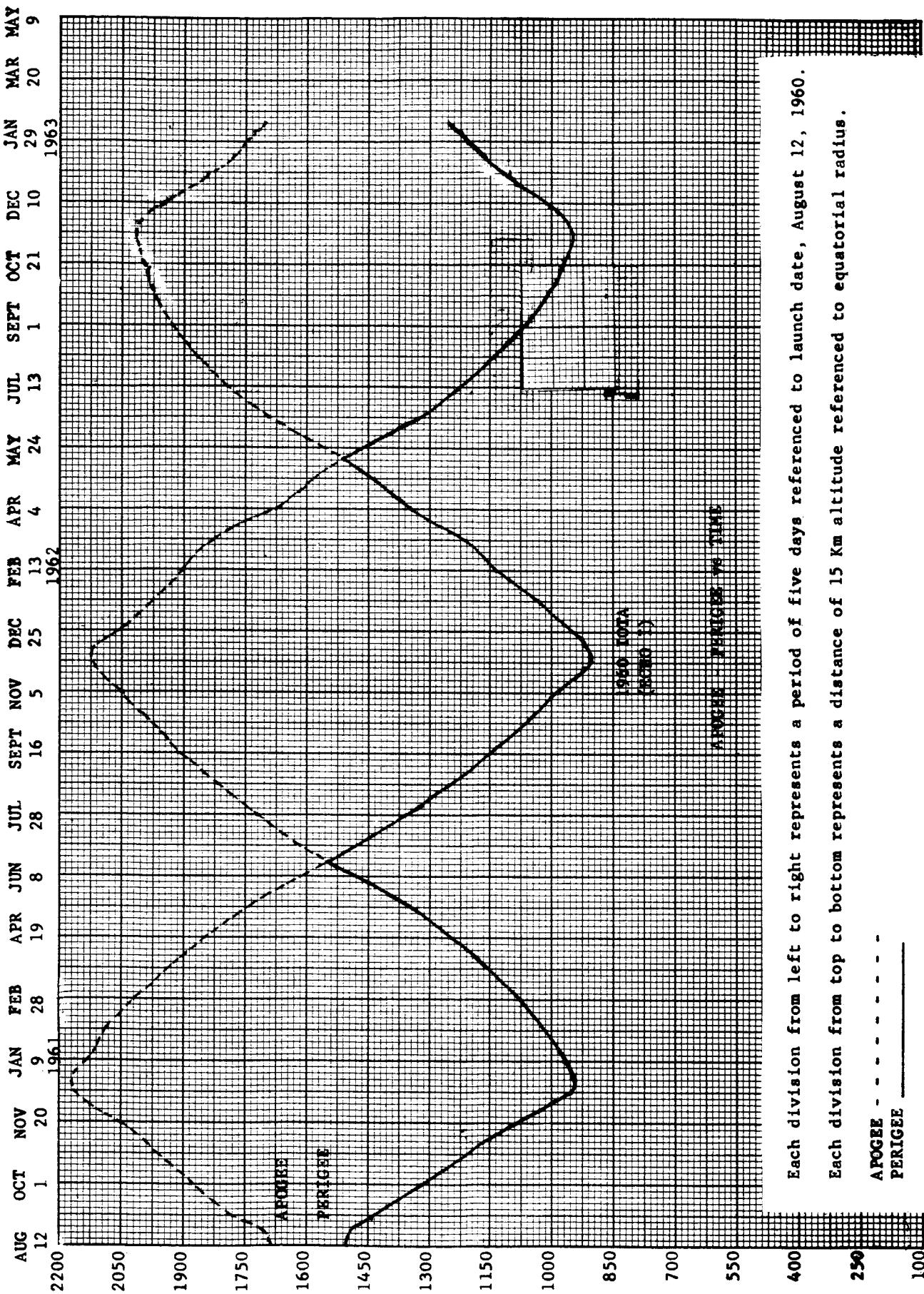
**SUCCESSFUL RE-ENTRY AND RECOVERY

***SUCCESSFUL RE-ENTRY , BUT NOT RECOVERY

****USSR ANNOUNCED SUCCESSFUL RE-ENTRY AND RECOVERY OF A MANNED SPACE VEHICLE

*****HIT MOON

*****US SUCCESSFULLY ORBITED AND RECOVERED A MANNED SPACE VEHICLE



Each division from left to right represents a period of five days referenced to launch date, August 12, 1960.

Each division from top to bottom represents a distance of 15 Km altitude referenced to equatorial radius.

APOGEE - - - - -
 PERIGEE _____